Ammonia Analyzer

Reagentless Monitoring of Dissolved NH₃

Continuous on-line measurement of ammonia using pH appropriate sensor technology. Uses specific sensor adapted to operational pH range to ensure correct measurement. Determine free ammonia, total ammonia, and NH₃-N for control and reporting purposes. Complete system mounted on wall mountable backpanel to facilitate installation. Sample header includes ammonia sensor, pH sensor, and temperature sensor.

Features & Benefits
- No reagents needed for continuous on-line monitoring.
- Measures ammonia concentration and logs values
- Two-point calibration of sensor at startup.
- Ethernet communication
- SCADA interface through 4-20 mA outputs or optional MODBUS
- Menu driven inputs for measurements and calibration
- Alarm capability on ammonia excursions
- Data logging and Trackster technology

Applications
- Potable water
- Wastewater treatment
- Cooling towers and chillers
- Nitrification processes
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Specifications

Ammonia Sensor: Potentiometric with gas-permeable membrane

Fixed temperature sensor: Thermal compensation for both pH and ammonia measurements

pH sensor: Displays value and provides compensation for ammonia sensor.

4-20 mA current outputs: DC isolated, assignable to measured variables

4 max. manual inputs: Assignable for user convenience

Communications interface: HTML, TCP/IP Ethernet LAN options, Micro web server with static IP, Modbus optional

Keypad – LCD: 5 key tactile feedback, 2 line backlit display

Power: 120 or 230 vac, 50/60 Hz

Fusing for 5 AC loads: 5 amps @ 120 VAC or 2.5 amps @ 230 VAC

Surge suppression: Relay 2-5 N.O. contacts snubbed @ 0.1 uF, 150 ohm

Accessory power: 15-22 VDC, unregulated, thermally fused @ 50 mA

Enclosure: Non-metallic, NEMA 4X, 14” W x 9” H x 3.75” D

Certifications: UL/CSA (CE pending)

Drawings

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